

WHAT IS CLAIMED IS:

CLAIMS:

Sub A1  
5 1. A coating composition for application on an ink jet printed porous substrate for improving the waterfastness of the ink jet image comprising a polymer, a pH modifier, a thickening additive, an electrolyte, a surfactant, and water.

2. A coating composition as claimed in claim 1 wherein the polymer comprises ethoxylated polyethyleneimine.

Sub A2  
10 3. A coating composition as claimed in claim 2 wherein the ethoxylated polyethyleneimine comprises from about 0.5% to 10% by weight, based on a 100% weight basis.

15 4. A coating composition as claimed in claim 3 wherein the ethoxylated polyethyleneimine comprises 5% by weight.

20 5. A coating composition as claimed in claim 1 wherein the surfactant is selected from the group consisting of nonionic, anionic and cationic surfactants.

6. A coating composition as claimed in claim 5 wherein the surfactant comprises Surfynol.

Sub A3  
25 7. A coating composition as claimed in claim 6 wherein the Surfynol is present in an amount of about 0.05% to 0.5% by weight.

8. A coating composition as claimed in claim 7 wherein the Surfynol comprises 0.3% by weight.

10. A coating composition as claimed in claim 9 wherein the N,N-dimethylethanolamine is present in an amount capable of maintaining the pH of the coating composition between about 8.8 and 9.1.

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15. A coating composition as claimed in claim 1 wherein the thickening additive comprises Guar.

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17. A coating composition as claimed in claim 1 further comprising a lower aliphatic alcohol.

19. A coating composition as claimed in claim 1 further comprising an ultraviolet fluorescent dye.

20. A coating composition as claimed in claim 1 wherein the coating composition is used as a pre-coat treatment prior to ink jet imaging the substrate.

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